The Idaho National Engineering and Environmental Laboratory

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FY 1998 Technology Deployment in Environmental Management

Solutions of the Future at the INEEL

Site Technology Coordination Group
U.S. Department of Energy, Idaho Operations Office

INEEL

Gamma Cam at INTEC

Problem: *Calciner cell turnaround maintenance activities result in significant exposure to workers due to hot spots remaining after remote decontamination activities are completed. A better method of radiological survey is needed.*

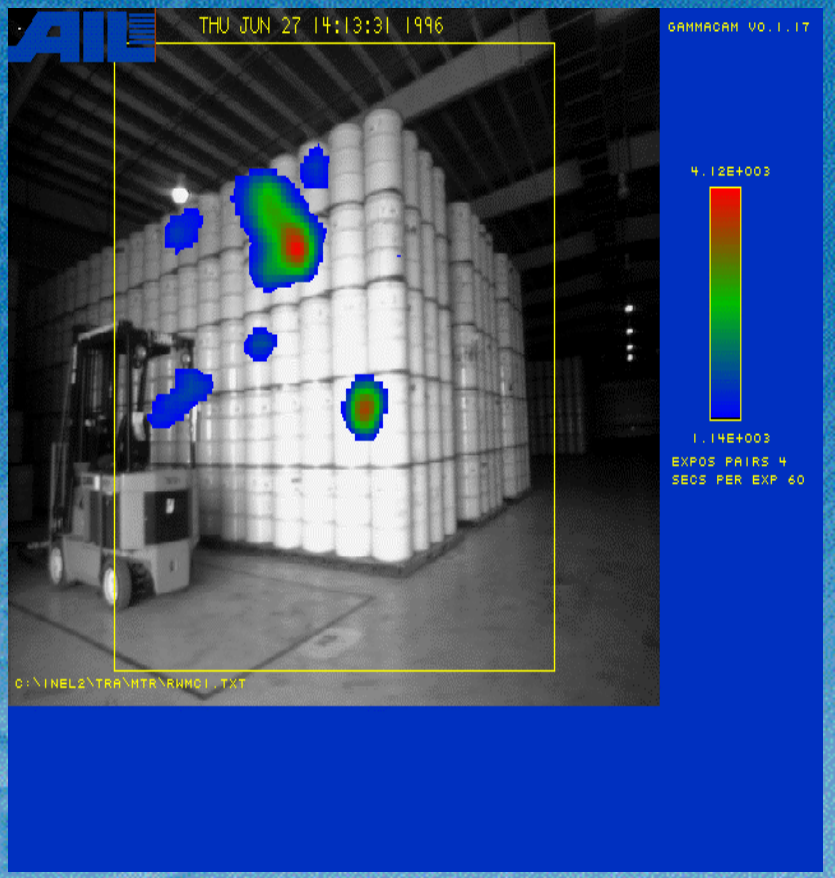
Baseline Technology: *Radiation monitors are remotely manipulated to perform basic cell survey to support remote decontamination efforts. Subsequently, radiological control technicians (RCTs) enter the cell and conduct surveys.*

Innovative Technology: *The Gamma Cam System is used to identify radiological hot spots prior to initial remote decontamination.*

Comparison: *Approximately 40 hours of RCT time is saved per NWCF turnaround. Maintenance personnel exposure is reduced due to more effective decontamination efforts.*

Savings: *14 man-rem per turnaround * $6,500 man-rem = $91.0K*
40 RCT hours @ $39.00/hr = $ 1.6K
$92.6K

Gamma Cam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